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An
(paper)

Inaugural Dissertation

on the

Autumnal Fever
of

Greenville County
Virginia

For the Signer of M.L.

by
John G. Parkham
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On the Occidental River of Greenville County
Virginia

This little county lies in the southern part of Virginia, bordering on the North Carolina line, and about one hundred miles above the seashore. The face of the country is generally level, somewhat hilly and broken in the western, but flat and swampy in the eastern parts. It is pretty thickly settled, the inhabitants generally in easy circumstances, and temperate in their mode of living.

With the disease of which I am about to speak, most commonly appear in the eastern parts of the county, I dare not, however, to enter into a more minute detail with regard to its situation, and what I consider the most fruitful source of the complaint.

The lands are low and swampy, but rich, and liable to frequent inundation from

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the overflowing of Mohican river which forms its northern boundary. This is a small stream, but subject to great floods, a little rain producing an almost immediate rise; and the banks being low, the water spreads to the distance of one or two miles from its banks.

It is no uncommon sight at these times, to see the water running within a few steps of the doors of the inhabitants.

At the distance of one or two miles from the river, there is a sudden elevation of ten or twelve feet, and what a remarkable ridge continues through the whole extent of the county, preserving nearly the same distance from the water's edge throughout.

On this elevation the inhabitants settle, for the twofold purpose of enjoying better health, and of preserving their parlour floors from the destructive influence of the

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muddy sediment, left on the occasion of the
water; which, though it would prove highly
injurious to them, serves to enrich the soil,
and insure the farmers with the belief that
their lands are inhabitable.

Those inundations, I have de-
scribed, (at certain seasons) are looked upon as fa-
vourable to health; — at others, they are viewed as
the harbinger of destruction, — the forerunner of sick-
ness and death. — If they are considered favour-
able, when they make their appearance in the
winter, or early in the spring — And why,
it may be asked, at these seasons, should they
be viewed in that light? The reason is obvious.
Occurring at these periods, they remove the whole
of the vegetable matter, that has been collecting
during the preceding summer and fall; which,
should it remain on the stagnant ponds, that
are here numerous, would prove an abundant

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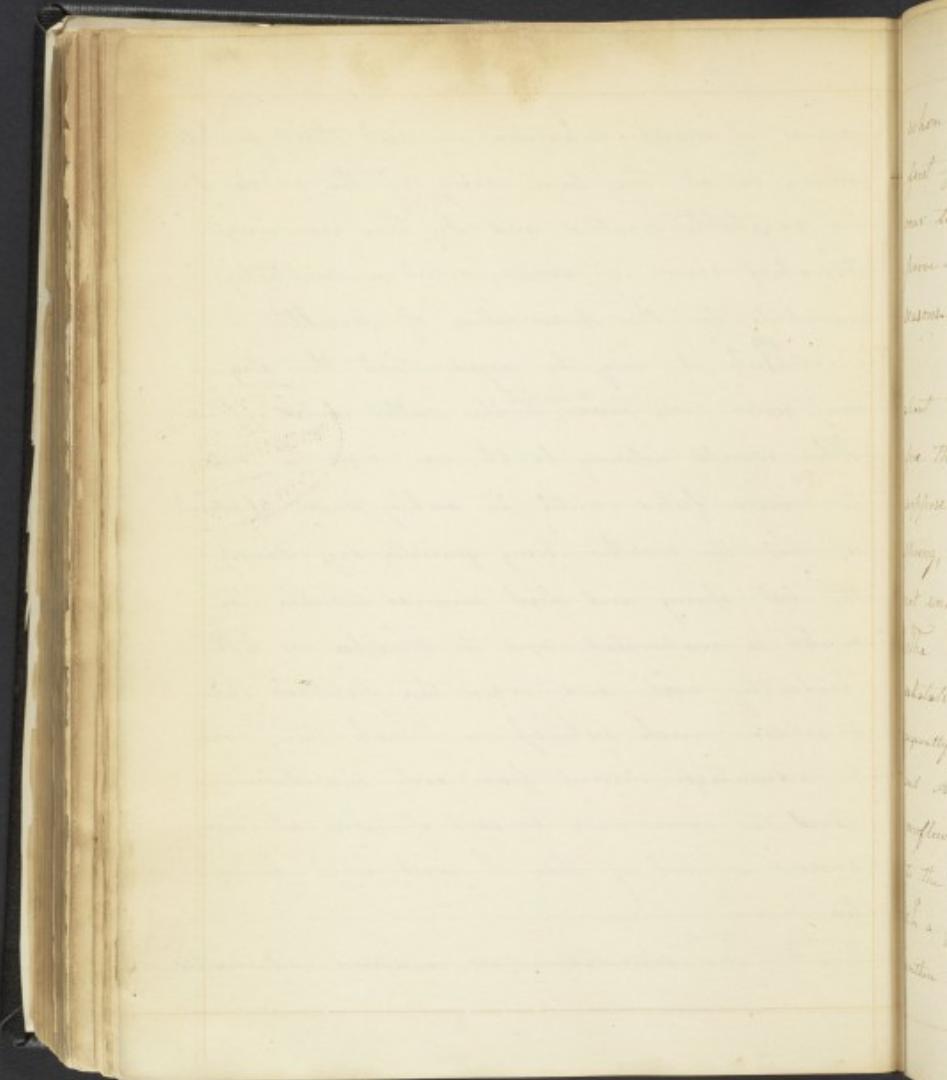
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source of marsh exhalations — but these gushes, coming on at this time, carry off the whole of the vegetable matter, and by thus removing the chief source of disease, must undoubtedly contribute to the preservation of health —

But it may be urged that the stagnant water will prove ^{as} ~~as~~ harmful as the matter carried off — This would certainly be the case, were the ponds to remain filled until the sultry season approach'd, but the weather being generally dry, during the last spring and first summer months, the water is evaporated, and the marshes are left perfectly arid, — and, when this happens there is seldom much sickness — Such, then, are the advantages derived from early inundations — And the same may be said of rain, at these seasons — but, of this, I will treat hereafter —

2^{ndly} The inundations are considered unformable —



when they appear in the last summer, and
first fall months — And, I will here under-
take to explain, why it is, that, they should
prove more pernicious at this, than at other
seasons.

The sickly season commences generally,
about the middle of August, or probably not earlier
than the middle of September. We well
suppose that there had been no frost in the
spring, and but little rain during the summer,
not enough to fill the ponds and swamps —
The country being dry, there are of course no
habitations of miasma — the inhabitants are con-
sequently healthy — but, in the month of July
and August, the rains setting in, the river over-
flows its banks, and covers the whole country
to the very foot of the ridge above mentioned —
In a few days the water subsides, and the river returns
within its proper limits — but the low places are



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all filled, and the hot weather continuing, this stagnant water, with the vegetable matter contained in it, putrefies, and emits exhalations, which prove the prolific source of this formidable disease. This is so generally the case, that the people have learned from sad experience to look upon an August frost, as the precursor of a sickly season.

Hot weather, and the time of its occurrence, exercise also a considerable influence with regard to this disease. — If there be much rain in the winter, or early in the spring, it creates no apprehension of danger — for the same reason, as were signified, when speaking of the early overflows of the river — Should there be, in the months of July and August, a great fall of water, much sickness may be expected — for the same causes as already mentioned —

When the rains set in as early as June, the disease will probably make its appearance —

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sometime in July — but this is not often the case — After these autumnal rains or overflows; should the weather continue very hot, the exhalations become so extremely noxious, as to often excite nausea in approaching the foot of the above named ridge — Indeed, I have had it from the lips of an old gentleman, who resided on that hill for ten or twelve years, and whose veracity cannot be doubted, that he has many mornings in going from his dwelling into what are called the lowgrounds (the land lying between the river and hill) been forced to stop and vomit freely — That so soon as he passed the skirt of woods which borders this hill, a disagreeable odor would spoil the olfactory — soon after which, an uneasy sensation would be felt at the pit of the stomach, — and this would continue until he had relieved himself by vomiting — This was generally the case, whenever he passed the place, without having previously fortified his stomach against its dictates —

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effect with some substantial food, or what professor Chapman emphatically calls Entelecymatics?—

This tract of country was formerly more unhealthy than at present. For the change, we are probably indebted to the draining and cultivating of the swamps and marshes, and the greater attention the people pay to the preservation of their health—the most of them being particularly cautious not to leave their houses before they have taken breakfast, thereby smalling their stomachs the better to resist the baneful effects of those poisons excretions.

As I have now finished what I had to say with regard to the situation of the country and the chief source of the disease, I shall in the next place proceed to give some account of this ^{form} of fever, as drawn from actual observation.

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The disease, as it appeared last fall (1823) was of a type totally different from its general character. Instead of the highly bilious inflammatory fever, which was confined almost exclusively to this country, we had one of a typhoid character, which on the onset baffled the skill of the physicians and prescimed the imminency of death. Sorrow and lament seized the affrighted people, and death marked its destructive course.

Before proceeding to the account of this disease, I shall give the outline of the fever that formerly prevailed in this district, with its general treatment &c. And, as it is nothing more than the common bilious fever, I shall dismiss it in a few words.

As already remarked, it makes its appearance sometime in August or September. The patient will, perhaps, complain of much debility, inclination to motion, languor, dull, heavy feelings.

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Stretching, yawning &c there is a peculiar yellowish appearance of the eyes, pale skin, and yellow complexion — This continuing several days, he is seized with a chill, succeeded by fever, and all the phenomena accompanying a paroxysm of the intermittent — The patient will probably have several of these paroxysms, before it becomes a confirmed bilious fever, or as it frequently happens, he may have but one — The fever established, the following are the symptoms to be met with — Pulse, frequent, active and strong, full, sanguinous, and bounding; pain in the back loins, and head; nausea and vomiting; the matter cast up being of a yellowish or greenish appearance, tongue loaded with a dark, or yellow substance, and dry; great thirst, parched lips, hot, dry skin, urine high coloured and scanty; bowels constipated, or very loose; on this case the stools —

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are of a deep yellow or dark appearance, white or clay coloured; and often a prickling, burning sensation is felt on the palms of the hands, and on the sole of the foot.—The disease advancing, These symptoms are all aggravated. The eyes assume a white appearance and are suffused; delirium supervenes, great heat and tenderness at the spot of the stomach; tongue mounted with a dark or yellow scurf; pulse quick, active, corded, and very frequent, becomes at length diminutive, weak, and intermitting, and the patient sinks.—

The indications in the first stage are evident. They are to reduce muscular action, and to evacuate the alimentary canal. This is done by bleeding, purging, purging refrigerants, and cold application.—Vascular action being reduced, and the alimentary canal thoroughly evacuated, Laxatives are next resorted to, and they com-

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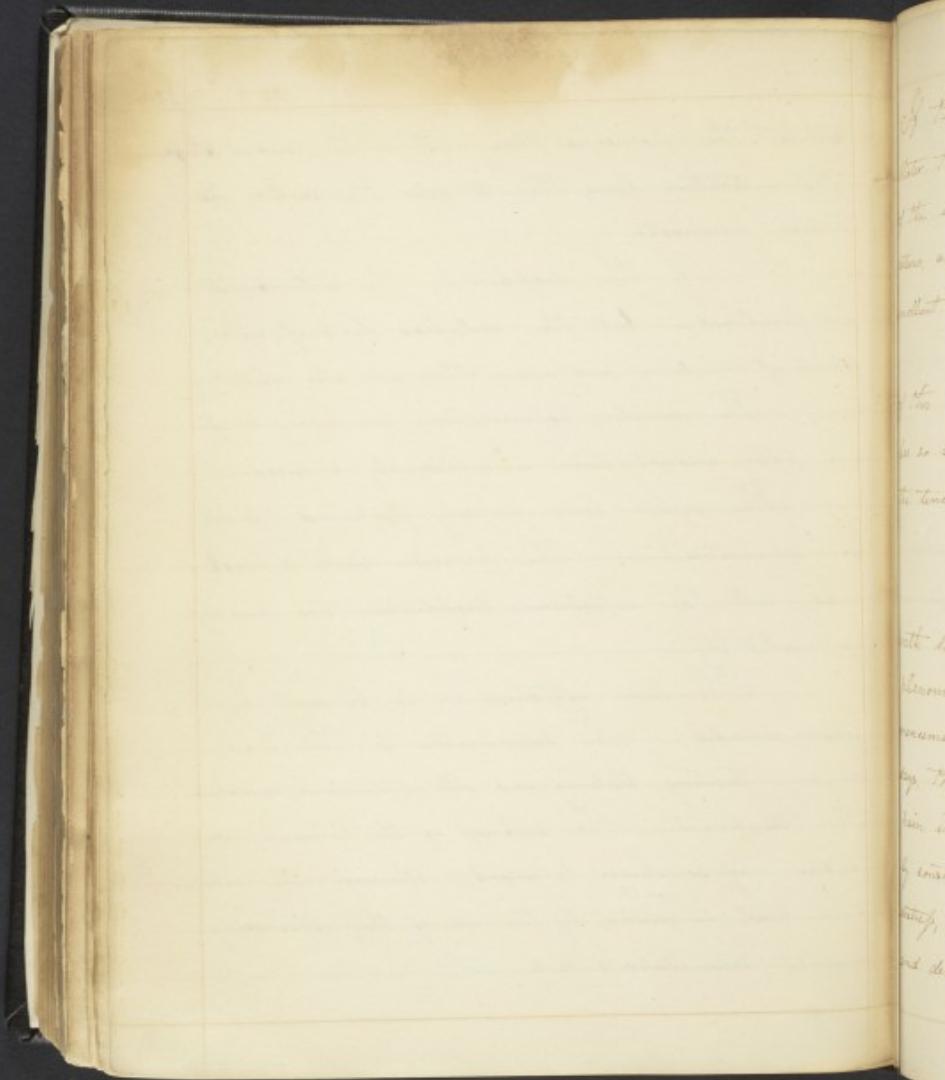
stitute the principal treatment in the second stage,
the indication being then to relax the surface and
induce perspiration —

Of the leprophiles, the antimonials
are preferred — but the calcified spurs of nitre,
spurts of Minervina, and many others are also used —

The oscillating applications are highly benefi-
cial, after arterial action is sufficiently reduced —

The system being properly prepared, tonics
are administered — The peruvian bark is much
used, but the aconitum perfoliatum has nearly
superceded it —

The local affections, are to be met by
local remedies — Circular determinations to the head,
cupping, leeching, blistering, and cold applications, constitute
the treatment — To sickness of the stomach, an
emetic may sometimes be useful, otherwise, the irrita-
bility must be quieted, by the use of the effervescent
drumfit, soda water &c &c —



If the liver or spleen be affected, cups, leeches, and blisters the hypochondrium — When inflammation of the intestines is apprehended, cups, leeches, cold applications, and blisters are applied to the abdomen, and emollient injections administered —

Dr.

With these remarks I shall close ^{the account} of this disease, and proceed to speak of that which has so lately made its appearance in this country, to the terror of its inhabitants —

This fever generally made its approach with languor, listlessness, great debility, and all those phenomena, which attend other fevers in the commencement — This state of things continuing several days, the patient is suddenly attacked with severe pain in the head, and loins; which are obstinately constipated, and difficult to move; great gastræorp, skin, hot and dry, pulse, quick, very frequent and diminutive; sometimes full soft and easily com-

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repeated; pain in different parts of the body, as
the back and extremities; violent determination to
the head, known by severe pain, wild appearance
of the eyes, contorted or dilated pupils, throbbing of
the temporal arteries, and pulsation of the carotids.
In a short time, the patient falls into a state
of stupor and coma, from which it is difficult
to arouse him — If a question be asked in a
loud tone, he will turn up his eyes and give
some answer, but immediately relapses into his former state — The disease advancing, the sym-
ptoms are all increased to an alarming degree — The
pulse becomes quick, weak, and irregular; tongue,
covered over with a dark brown, or yellow substance,
very dry, and parched; collection of dark sordes
about the teeth and gums, stomach so irritable
that scarcely any thing can be retained, skin, very
hot, and dry, imparting the sensation of great heat
to the hand, bowels obstinately constipated, and —

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when opened, the stools are of a dark vinegared nature, and very foetid — The patient at length sinks into a state of profound stupor, is insentient to all surrounding objects, and lies more like one enjoying a sweet repose, than a person on the brink of the grave — oft other times he is rattlely assuming various positions in bed, throwing about his arms, rolling from side to side, and when interrogated with regard to his disease, raises his hands to his head, he moans, sighs, and exhibits all the signs of the greatest uneasiness — Involuntary discharges now take place, sensibility is much impaired, the extremities become cold, and are covered with a clammy sweat, pulse, weak, irregular, fluttering, sinks, and the tragic scene is closed —

From the preceding symptoms, we are brought to the conclusion, that this is a disease of gastric origin, and for its cure, our

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remedies must be such, as will sooth and quiet
the irritability of the stomach, and restore it to
the performance of its natural function.

As the stomach, in most cases appeared
to be principally affected, the remedies were
accordingly directed with a view to relieve
that important organ - and this formed the lead-
ing indication in the first stage of the disease.

Venesection could not be resorted to
on account of the debility of the patient,
when the physician was called. It was
tried in several cases, but always with mani-
fest disadvantage - In one case, a few ounces
produced such a prostration, that it was with
the greatest difficulty, the patient was revived.

Although there was generally great
gastro distension in the beginning of the complaint,
yet, it did not appear to arise from an accum-
ulation of bile, or other extraneous matter.

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but from the great irritability of the stomach,
owing, I presume, to incipient inflammation
of that viscus. Comfits for several reasons could
not be used - 1st They could not be retained
long thrown back immediately - 2^d The inflam-
mation forbade their administration - it would
thereby have been increased - 3^d They prostrate
the system below the point of reaction - of
this I shall give an instance - - -

Mr. W. went complained of being unwell
and desired his master to give him an emetic. He
complied, and so soon as it commenced operating, the
system was prostrated to an alarming degree -
stimulating injections of rum, bark, and the like
were resorted to, but without success - His master
at length gave him up as lost - Dr. Harnip,
who had patients on the same plantation, deter-
mined to try the effects of cold water - It
was accordingly thrown into the rectum in -

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large quantities; cloths wrung out in it, were applied to the head, stomach, and abdomen, and in a short time the patient exhibited signs of returning life; and ultimately recovered—He had been in this situation several days before Dr. Lampy was applied to.—

Drastic purgations, could be as little employed—The reasons are obvious.—

These remedies, the most important in the practice of our profession, being rejected, how should we proceed to combat this formidable disease? — The mode pursued shall be pointed out in a few words.—

When called to a patient labouring under the above symptoms, the treatment was commenced by the administration of some laxative medicine, as castor oil; if the stomach would allow of its use; but, that which was found to be the best, was a combination of sponges—

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sulphur and carbonate of magnesia — This appears to agree better with the stomach, than my other medicine — Its operation was aided, by the frequent exhibition of cathartics of a cathartic character, so as to produce copious excretions — And here I must insist on the great utility of this highly important, but too much neglected class of remedies — Previous to the appearance of this disease, injections were rarely used among us; but now, meeting with a state of the system, which forbade the use of most other remedies, these were resorted to with the most important results — indeed, they were chiefly relied on, in the management of the disease, — but, to be effectual, they had to be frequently repeated —

To prove their great utility, I will relate a case which occurred under my own observation —

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The child of a free person of colour was taken ill of this disease. Some medicine had been administered without effect. Dr. Smith was called in - he promised, and engaged me to visit the patient in the afternoon, and see that his treatment had been carried into effect; so he considered the child in a dangerous state. I called as requested and found the patient labouring under the following symptoms. Pulse, full, soft and compressible; skin hot, and dry; tongue coated; and the patient speechless and sensible; bowels constipated; nor had there been an evacuation for several days. Dr. Smith had ordered injections, and cold applications to the head and abdomen - neither of which had been done. I had an injection of salt and water prepared, and administered immediately; tincture of sanguinaria in cold water were applied as above directed; and when I left the house, the injections were ordered to be repeated every half hour, until the bowel

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were freely evacuated. When Dr. Smith made his visit the next morning, he found his patient much improved in every respect. The sores were closed, the power of speech regained, and the surface moist. He directed the same treatment to be continued; but the parents, finding it so much bitter, neglected to give the injections; and when the Dr. visited him in the ^{evening}, it was found in the same state as on the preceding afternoon. The same treatment was renewed, and with the same happy result. The bowels being, then, left freely open for several days, the patient recovered entirely.

As a powerful auxiliary in arresting the progress of this disease, cold was resorted to, with the happiest and most signal effect. See them in the complaint that calls loudly for the use, and here it has displayed its power in controlling disease. Cloths, wrung out in cold water, were applied to the head, stomach, and abdomen, and

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by the diminution of pain in the head, comfortable sensations they imparted to the patient, quieting the surface, diffusing a gentle glow over the whole system, relaxing the skin, renovating the power of the mind, "calming the agitation of the corporeal frame," returning quiet to the disturbed and wandering faculties, and enabling the patient to sink into, and enjoy a calm and quiet repose, they displayed their greatest utility in this formidable disease. This is the mode in which the oil was generally used—but in one instance within my knowledge, it was applied by diffusion—The attending physician was called soon after the attack. He sent the patient (a negro boy) to a well that was convenient, and had buckets of cold water drawn, and immediately thrown on him—it had the happiest effects, and the boy soon recovered—I am, therefore, fully convinced of the utility of this remedy, and shall not hesitate to resort to it, if this

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disease be prevailing, when I enter into the practice of medicine — Yet, the rule laid down in either, with regard to temperature, perspiration &c must be attended to. If he be cold, or in a general perspiration, none but an enthusiast or a madman would think of the remedy —

With regard to Dr. Wm. Channing, I will say nothing — leaving that to men of more science, and better judgment than I possess —

Refrigerants were also used, to assist in reducing arterial action and nothing was of more service than the effervescing draught, soda powder and such article. They not only act as refrigerants, but also quiet the irritability of the stomach, and place it in a comfortable condition. But, of itself, has a tendency to abate the fever, for so long as nausea continues, the whole system must be disordered — To use —

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a favorite expression of Professr Chapman,
Ventriculo languide omnia languent.

The soda powders were much used by my preceptor, Dr. Henry, whose practice was very extensive and successful - he obtained the best effects from their free administration.

Tortorial action being reduced, and the stomach restored to a quiet and tranquil state, the 2nd stage of the disease next claimed our attention. - If there were any remains of coma, (which was generally the case) a blister was applied to the back of the neck; and this not affording relief, they were alternately placed on the ankles and wrists, and these incensed feeling, I would recommend the head to be shaved, and one applied over its entire surface. This was not done in any instance, that I am aware

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If but of its utility there can be no doubt.
Dry cupping might also have a beneficial effect.—The injections were continued through out, so as to keep the bowels in a soluble state.—Laxative medicines were choice, occasionally giving the mixture so much recommended by Dr Chapman was much used viz. Glauber salts, tartar emetic, lemon juice or vinegar, an enema.

This kept the bowels loose, relaxed the surface, and had also a refrigerant effect.

Diaphoretic were at this time, of primary importance.—The celebrated powders of Dr Rush, were highly esteemed. These, as is well known, consist of camomel, tartar emetic, and nitre.

If no purgation were desired, the camomel was omitted.—Combinations of the diluted spirits of nitre, laudanum, and antimonial wine, were used with benefit. But, when the irritability of the stomach was such, as to forbid

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the use of the antimonials in every shape, the saline mixture was substituted. This not only subdues arterial action, but also quiet's the irritability of that organ.

Cold applications were continued in this stage of indications. Indeed, I believe them to be the most effective means we possess, in overcoming this disease; and had they been more frequently resorted to, the mortality would not have been so great. From respecting its decidedly beneficial effects in several cases, I should not hesitate to push its use to a very considerable extent and I am fully persuaded, that when it comes to have a more extensive application, the latter will practitioners be blessed with it. I have seen a case of obstinate constipation, which had resisted every remedy, even the tartar emetic injections, yield, in a few minutes, to the sudden application of cold to the abdomen, by means of cloths dipped in cold water and immediately

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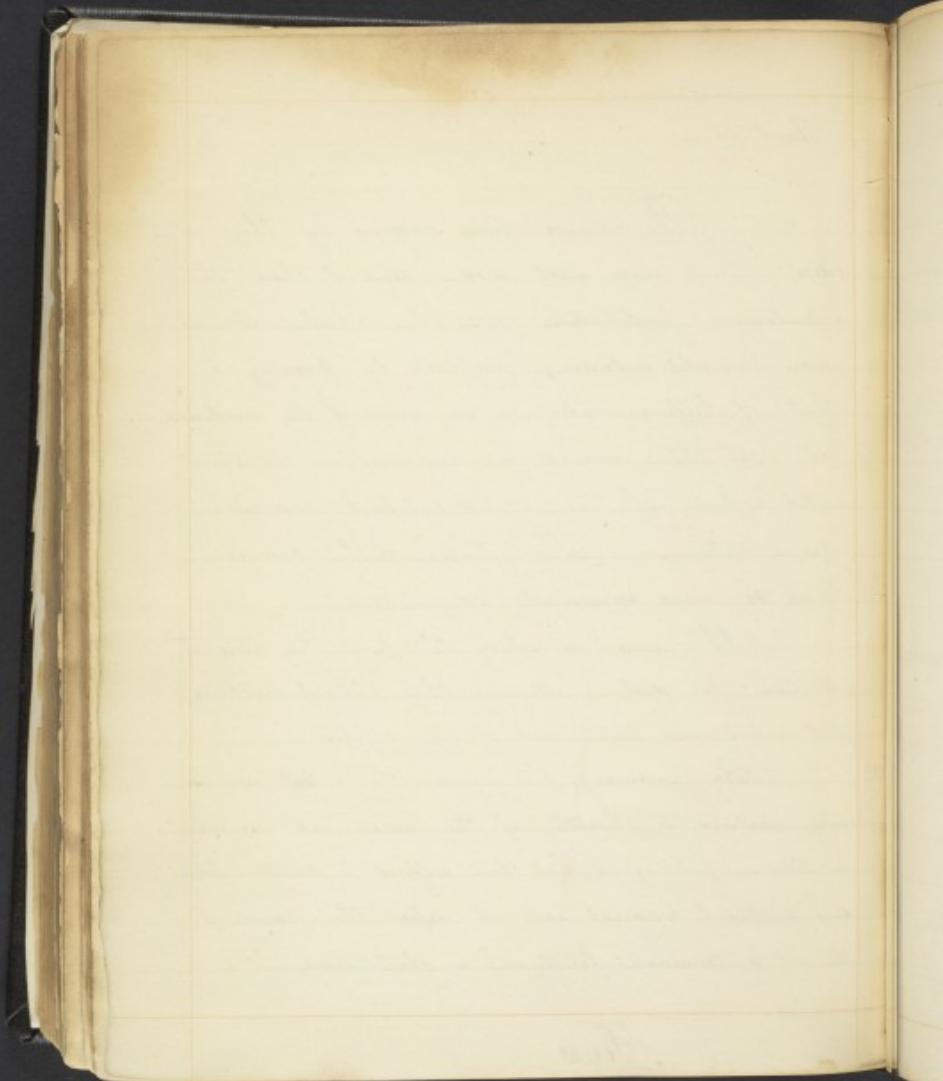
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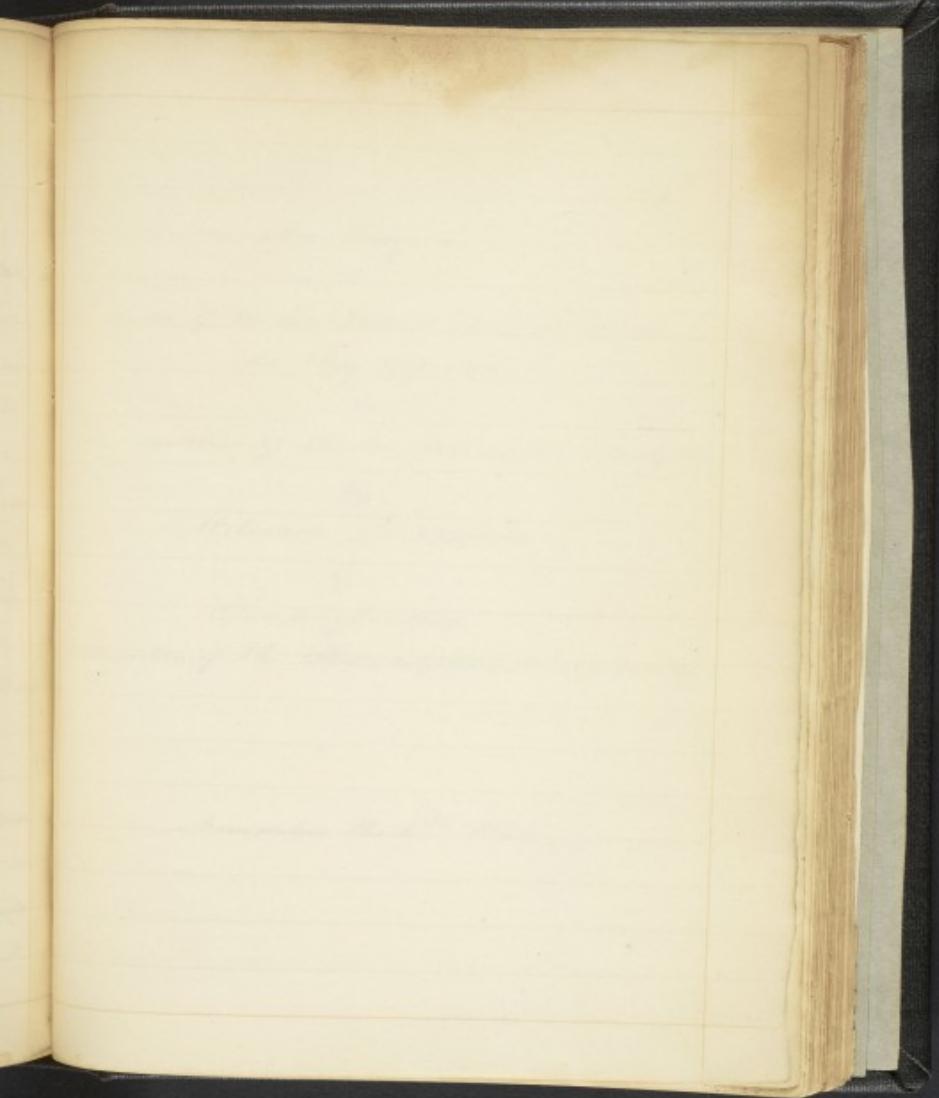
The disease being overcome by these consider-
able tonics were next used — and of these, the
upatorium profectum was the chief — it was
seen in cold infusion, prepared by pouring a
pint of boiling water on an ounce of the medicine —
it was then covered over, and suffered to stand
until cool — of this, a wine-glassful was given
three times a day — — — — —
These tonics, as the jessamine-
bark &c were occasionally administered. — — —

It was necessary to pay the strictest
attention to diet, — allowing the patient nothing,
but what was light, and of easy digestion. — — —

By pursuing this course, the patient was gen-
erally restored to health, if the disease had been when-
in time, but if it had been suffered to continue several
days without medical aid, it defied the power of
the art, & terminated fatally in a short time. — — —

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